(No Model.)

R. P. DAGGETT.

URINAL.

No. 244,381. Patented July 19, 1881.

Fig. 1.

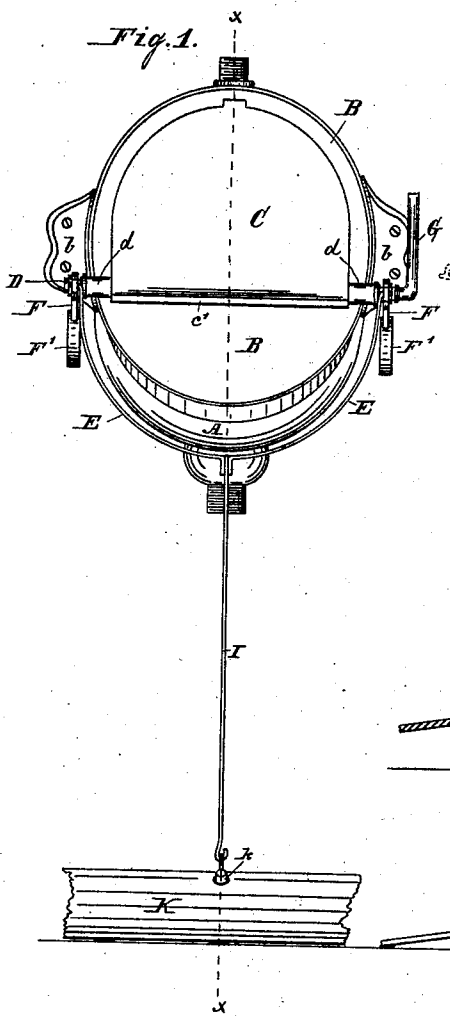


Fig. 3.

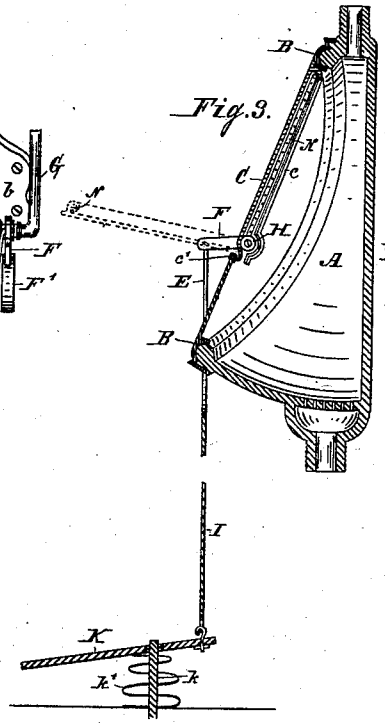


Fig. 2.

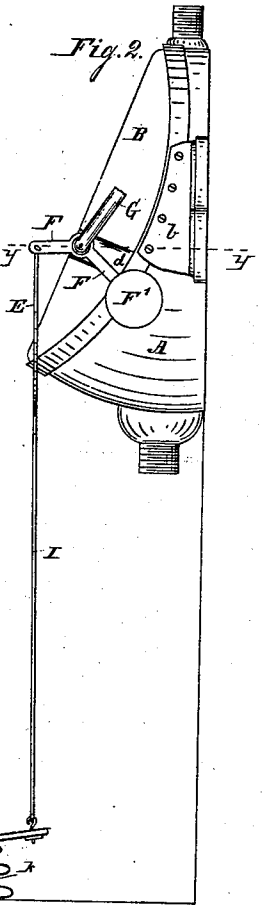
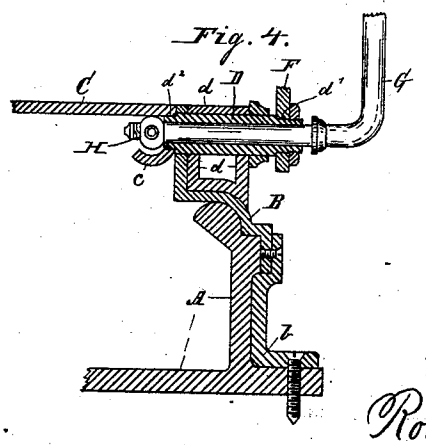


Fig. 4.



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UNITED STATES PATENT OFFICE.

ROBERT P. DAGGETT, OF INDIANAPOLIS, INDIANA.

URINAL.

SPECIFICATION forming part of Letters Patent No. 244,381, dated July 19, 1881.

Application filed May 17, 1881. (No model.)

To all whom it may concern:

Be it known that I, ROBERT P. DAGGETT, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Urinals; and I do hereby declare that the following is a full, clear, and exact description of the invention.

My invention relates to improvements in urinals; and the object of my improvements is, first, to supply an automatic cover to be applied to old-fashioned porcelain or metal urinals already in use without removing them from their present position; second, to continue the adoption of the old-fashioned porcelain or metal urinals by supplying what they lack—viz., a cover to prevent the escape of the unpleasant odors, which will arise from their continual use without covers; third, to uncover and re-cover urinals automatically, and at the same time to automatically turn on or off the water used in flushing urinals.

I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of the entire apparatus; Fig. 2, a side view of the apparatus; Fig. 3, a vertical section of the apparatus on line *x x* on Fig. 1, showing cover C open by dotted lines; Fig. 4, a vertical section on line *y y* on Fig. 2.

Similar letters refer to similar parts throughout the several views.

The invention consists of frame B, made to fit opening of urinal and secured in place by flanges *b b*, or by a flange bent around rim of urinal and screwed to frame B.

The cover C is operated by shoulder d^2 on arm D, which passes through shoulder *d* on frame B.

To arms D, on shoulders *d'*, are secured cranks F. Cranks F are operated by weights F', to keep lid closed or to close lid when open, and by arms E, connected to ends of cranks F and to rod I. Rod I is connected to and operated by fore end of treadle K. Fore end of treadle K is operated by spring *k'*, around guide *k*, to keep fore end up, or by the weight of any person on treadle K to throw it down, and with it rod I, arms E, crank F, and cover C, in order to use urinal. Treadle K is hinged at rear end to floor.

The water to flush urinal before urinal is used, while it is being used, and after it has been used, is supplied by supply-pipe G, passing through shoulders *d* to cock H. From cock H pipe N passes around lid C, inside of flange *c*. Pipe N is perforated with holes, to permit water to escape onto cover C when cover is opened.

Any person to use urinal must step on treadle K. This throws fore end of treadle K down, and with it rod I and arms E, which are connected to rod I and to cranks F. Cranks F are connected to arms D by shoulders *d'*. Arms E, being connected to cranks F, operate on arms D, which operate cover C by being connected to it by shoulder d^2, and throw cover C down, at the same time raising weights F' on cranks F. As cover is thrown down, the perforated pipe N, which passes around lid C, inside of flange *c*, operates cock H and turns on water as soon as the lid commences to open and while lid is open. The urinal can now be used. After using urinal, the person steps from treadle K. The weights F', which are attached to cranks F, lower and operate cranks F, and with them arm D and cover C. Cover C, in closing, operates on pipe N, which operates cock H, and when cover C is closed the cock H is closed and shuts off water. The operating of cranks F lifts arms E, to which they are attached, arms E raise rod I, to which they are attached, rod I, with the assistance of spring *k'* around guide *k*, raises fore end of treadle K. The urinal is now covered, the water shut off, and treadle K is ready to be operated again in opening cover to urinal.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, in old-fashioned porcelain or metal urinals, of frame B, cover C, arm D, cranks F, arms E, rod I, and treadle K, substantially as described.

2. The combination, in old-fashioned porcelain or metal urinals, of the frame B, cover C, pipe N, cock H, arm D, cranks F, with weights F', arms E, rod I, and treadle K, substantially as described, and for the purpose set forth.

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Witnesses:
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